

Air-Quality Detection Module

(Model: ZP07-MP901)

User's Manual

Version: 1.1

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Zhengzhou Winsen Electronics Technology Co., Ltd

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Zhengzhou Winsen Electronics Technology CO., LTD.

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ZP07-MP901 Air-Quality Detection Module

Product Description

ZP07 air-quality module adopts flat surface semiconductor gas sensor. The module has good sensitivity to volatile organic gases such as formaldehyde, benzene, carbon monoxide, ammonia, hydrogen, alcohol and smoke of cigarette, essence & etc. The module has been aging, debugged, adjusted and calibrated. So it has good consistency and high sensitivity.

Features

High sensitivity

Low power consumption, long life

Calibrated before shipment

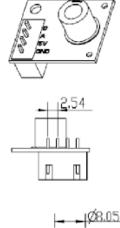
10 seconds to 3 minutes with auto-preheating function

Faulty auto-check, High cost-effective

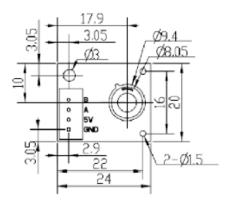
Application

Air cleaner, fresh-air system, intelligent integrated ceiling, air quality detector, ventilator, air-condition. **Parameters**

Model	ZP07-MP901	
Sensor	Air quality sensor	
Target Gas	formaldehyde, benzene, carbon	
	monoxide, ammonia, hydrogen,	
	alcohol, smoke of cigarette, essence	
	&etc.	
Physical Interface	XH2.54-4P terminal sockets	
Output Data	0—10 grade pollution signal	
Working Voltage	5.0±0.2V DC (No voltage reverse	
	connect protection)	
Output Data	TTL level (200ohm protected	
Output Data	resistance inside)	
Working Current	≤60mA	
Warm Up Time	≤3 mins	
Response Time	≤20s	
Recovery Time	≤60s	
Operating Temperature	0∼50°C	
Operating Humidity	≤95%RH	
Storage Temperature	−20~60° C	
Storage Humidity	≤60%RH	
Size	24×20×15mm(L×W×H)	
Weight	≤ 20g	
Sensitivity Attenuator	≤1%/year	
Life Span	≥5 years	



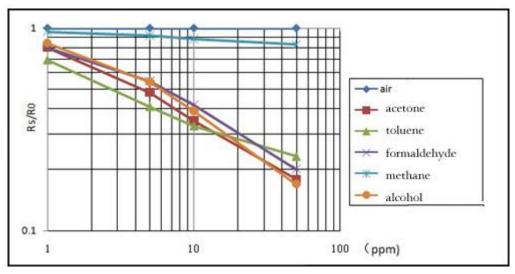




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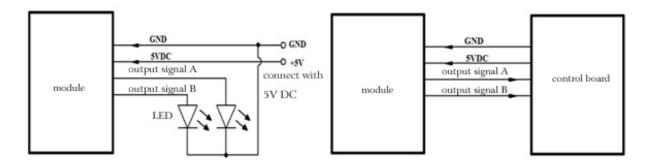


Sensitivity Characteristics



Contrast of the sensitivity in different gases

Application of schematic diagram



Pin definition Stable2.

Pin	Name	Function
1	GND	Input power -
2	5V	Input power +
3	А	Output signal A
4		Output signal B
4 B	В	(reserved by factory)

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A Output Signal Stables.		
High ms	Low ms	Pollution Class
0	100	0
10	90	1
20	80	2
30	70	3
40	60	4
50	50	5
60	40	6
70	30	7
80	20	8
90	10	9
100	0	10

A Output Signal Stable3.

Cautions

- Please do not put the module in organic solvent (include silica gel and other cementing compound), painting, medicament, oils and fuels, high concentration gas etc.
- Please do not impact or vibrate the module seriously.
- Please warm up for 5 min before first using.
- Please do not use the module related with personal safety.
- Please do not install the module in the severe convection environment.
- Please do not put in the module in high concentration organic gas for long time.

Note: To keep continual product development, we reserve the right to change design features without prior notice.

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